

AI 9248US Sequence Listing.txt
SEQUENCE LISTING

<110> Cowley, Michael
Cone, Roger
Low, Malcolm
Bulter, Andrew
Bloom, Stephen Robert
Small, Caroline Jane
Batterham, Rachel Louise
Ghatei, Mohammad Ali

<120> Modification of Feeding Behavior Using PYY and GLP-1

<130> AI 9248US

<140> US/10/501,411

<141> 2004-07-12

<150> PCT/GB03/00062

<151> 2003-01-10

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<151> 2002-06-28

<150> GB 0200507.2

<151> 2002-01-10

<160> 341

<170> PatentIn version 3.1

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<212> PRT

<213> Homo sapiens

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Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
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Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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<212> PRT

<213> Homo sapiens

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Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15

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Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30

Arg Gln Arg Tyr
35

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<213> Homo sapiens

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Ala Ser Leu Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30

Arg Pro Arg Tyr
35

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Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

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Arg Gln Arg Tyr
35

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<211> 36
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<213> Cavia porcellus

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Tyr Pro Ser Lys Pro Glu Ala Pro Gly Ser Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Ala Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

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<213> Rana sp.

<400> 8

Tyr Pro Pro Lys Pro Glu Asn Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

Met Thr Lys Tyr Leu Thr Ala Leu Arg His Tyr Ile Asn Leu Val Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 9
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<212> PRT
<213> Raja sp.

<400> 9

Tyr Pro Pro Lys Pro Glu Asn Pro Gly Asp Asp Ala Ala Pro Glu Glu
1 5 10 15

Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 10
<211> 36
<212> PRT
<213> Dogfish sp.

<400> 10

Tyr Pro Pro Lys Pro Glu Asn Pro Gly Glu Asp Ala Pro Pro Glu Glu
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1 5 10 15
 Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
 35

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 <213> Lampetra sp.

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Phe Pro Pro Lys Pro Asp Asn Pro Gly Asp Asn Ala Ser Pro Glu Gln
 1 5 10 15
 Met Ala Arg Tyr Lys Ala Ala Val Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
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 <213> Petromyzontidae gen. sp.

<400> 12

Met Pro Pro Lys Pro Asp Asn Pro Ser Pro Asp Ala Ser Pro Glu Glu
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 Leu Ser Lys Tyr Met Leu Ala Val Arg Asn Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
 35

<210> 13
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 <213> Rattus sp.

<400> 13

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1 5 10 15
 Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
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<210> 14
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<213> Oryctolagus cuniculus

<400> 14

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1 5 10 15
 Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
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<212> PRT

<213> Canis familiaris

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Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
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 Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
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<210> 16

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<213> Sus sp.

<400> 16

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1 5 10 15
 Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
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<210> 17

<211> 36

<212> PRT

<213> Bos taurus

<400> 17

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1 5 10 15
 Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30
 Arg Gln Arg Tyr
 35

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<210> 18
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 <213> Ovis aries

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Tyr Pro Ser Lys Pro Asp Asn Pro Gly Asp Asp Ala Pro Ala Glu Asp
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Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30

Arg Gln Arg Tyr
 35

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Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
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Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30

Arg Gln Arg Tyr
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<210> 20
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<400> 20

Tyr Pro Ser Lys Pro Asp Ser Pro Gly Glu Asp Ala Pro Ala Glu Asp
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Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
 20 25 30

Arg Gln Arg Tyr
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<400> 21

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
 1 5 10 15

Met Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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25

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Arg Gln Arg Tyr
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<210> 22
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<213> Carassius auratus

<400> 22

Tyr Pro Thr Lys Pro Asp Asn Pro Gly Glu Gly Ala Pro Ala Glu Glu
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Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30

Arg Gln Arg Tyr
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<210> 23
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<213> Dogfish sp.

<400> 23

Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Gly Ala Pro Ala Glu Asp
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Leu Ala Lys Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30

Arg Gln Arg Tyr
35

<210> 24
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<213> Lampetra sp.

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Pro Pro Asn Lys Pro Asp Ser Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15

Leu Ala Arg Tyr Leu Ser Ala Val Arg His Tyr Ile Asn Leu Ile Thr
20 25 30

Arg Gln Arg Tyr
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<210> 25
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<213> Ovis aries

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Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15

Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30

Arg Pro Arg Tyr
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<210> 26
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Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30

Arg Pro Arg Tyr
35

<210> 27
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<213> Canis familiaris

<400> 27

Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30

Arg Pro Arg Tyr
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<210> 28
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<400> 28

Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15

Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30

Arg Pro Arg Tyr
35

<210> 29

AI 9248US Sequence Listing.txt

<211> 36
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 <213> Bos taurus

<400> 29

Ala Pro Leu Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
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 Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
 20 25 30
 Arg Pro Arg Tyr
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Ala Pro Leu Glu Pro Met Tyr Pro Gly Asp Tyr Ala Thr His Glu Gln
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 Arg Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr
 20 25 30
 Arg Pro Arg Tyr
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<210> 31
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Ala Pro Leu Glu Pro Met Tyr Pro Gly Asp Tyr Ala Thr Pro Glu Gln
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 Met Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr
 20 25 30
 Arg Pro Arg Tyr
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<210> 32
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Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
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 Gln Met Ala Gln Tyr Ala Ala Glu Met Arg Arg Tyr Ile Asn Met Leu
 20 25 30

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Thr Arg Pro Arg Tyr
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<210> 33
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<213> Gallus gallus

<400> 33

Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
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Leu Ile Arg Phe Tyr Asn Asp Leu Gln Gln Tyr Leu Asn Val Val Thr
20 25 30

Arg His Arg Tyr
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<210> 34
<211> 36
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<213> Alligator sp.

<400> 34

Thr Pro Leu Gln Pro Lys Tyr Pro Gly Asp Gly Ala Pro Val Glu Asp
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Leu Ile Gln Phe Tyr Asn Asp Leu Gln Gln Tyr Leu Asn Val Val Thr
20 25 30

Arg Pro Arg Phe
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<210> 35
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<213> Rana catesbeiana

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Ala Pro Ser Glu Pro His His Pro Gly Asp Gln Ala Thr Pro Asp Gln
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Leu Ala Gln Tyr Tyr Ser Asp Leu Tyr Gln Tyr Ile Thr Phe Ile Thr
20 25 30

Arg Pro Arg Phe
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AI 9248US Sequence Listing.txt

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Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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<400> 37

Arg His Thr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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<400> 38

Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
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Arg His Tyr Ile Asn Leu Val Thr Arg Gln Arg Tyr
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Arg His Tyr Val Asn Leu Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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 Arg His Tyr Leu Gln Leu Val Thr Arg Gln Arg Tyr
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 Arg His Tyr Leu Asn Ile Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
1 5 10

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Arg His Tyr Leu Asn Leu Val Thr Lys Gln Arg Tyr
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Arg His Tyr Leu Asn Leu Val Thr Arg Asn Arg Tyr
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<400> 49

Arg His Tyr Leu Asn Leu Val Thr Arg Gln Lys Tyr
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AI 9248US Sequence Listing.txt

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Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Phe
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Lys His Thr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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Lys His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

Lys His Tyr Ile Asn Leu Val Thr Arg Gln Arg Tyr
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Lys His Tyr Val Asn Leu Val Thr Arg Gln Arg Tyr
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Lys His Tyr Leu Gln Leu Val Thr Arg Gln Arg Tyr
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Lys His Tyr Leu Asn Ile Val Thr Arg Gln Arg Tyr
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<400> 58

Lys His Tyr Leu Asn Val Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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 Lys His Tyr Leu Asn Leu Val Ser Arg Gln Arg Tyr
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 Lys His Tyr Leu Asn Leu Val Thr Lys Gln Arg Tyr
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AI 9248US Sequence Listing.txt

Lys His Tyr Leu Asn Leu Val Thr Arg Asn Arg Tyr
1 5 10

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Lys His Tyr Leu Asn Leu Val Thr Arg Gln Lys Tyr
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Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Thr
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Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Phe
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Arg His Thr Ile Asn Leu Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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 Arg His Thr Val Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

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Arg His Thr Leu Gln Leu Val Thr Arg Gln Arg Tyr
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Arg His Thr Leu Asn Ile Val Thr Arg Gln Arg Tyr
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Arg His Thr Leu Asn Val Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

Arg His Thr Leu Asn Leu Ile Thr Arg Gln Arg Tyr
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Arg His Thr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
1 5 10

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Arg His Thr Leu Asn Leu Val Ser Arg Gln Arg Tyr
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Arg His Thr Leu Asn Leu Val Thr Lys Gln Arg Tyr
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Arg His Thr Leu Asn Leu Val Thr Arg Asn Arg Tyr
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Arg His Thr Leu Asn Leu Val Thr Arg Gln Lys Tyr
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Arg His Thr Leu Asn Leu Val Thr Arg Gln Arg Thr
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<400> 79

Arg His Thr Leu Asn Leu Val Thr Arg Gln Arg Phe
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<400> 80

Arg His Phe Ile Asn Leu Val Thr Arg Gln Arg Tyr
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Arg His Phe Val Asn Leu Val Thr Arg Gln Arg Tyr
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Arg His Phe Leu Gln Leu Val Thr Arg Gln Arg Tyr
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<400> 83

Arg His Phe Leu Asn Ile Val Thr Arg Gln Arg Tyr
1 5 10

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<400> 84

Arg His Phe Leu Asn Val Val Thr Arg Gln Arg Tyr
1 5 10

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<400> 85

Arg His Phe Leu Asn Leu Ile Thr Arg Gln Arg Tyr
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Arg His Phe Leu Asn Leu Leu Thr Arg Gln Arg Tyr
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<400> 87

Arg His Phe Leu Asn Leu Val Ser Arg Gln Arg Tyr
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<400> 88

Arg His Phe Leu Asn Leu Val Thr Lys Gln Arg Tyr
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<400> 89

Arg His Phe Leu Asn Leu Val Thr Arg Asn Arg Tyr
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<400> 90

AI 9248US Sequence Listing.txt

Arg His Phe Leu Asn Leu Val Thr Arg Gln Lys Tyr
1 5 10

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Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Thr
1 5 10

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<400> 92

Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Phe
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<400> 93

Arg His Tyr Leu Gln Ile Val Thr Arg Gln Arg Tyr
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<400> 94

Arg His Tyr Leu Gln Val Val Thr Arg Gln Arg Tyr
1 5 10

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Arg His Tyr Leu Gln Leu Ile Thr Arg Gln Arg Tyr
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Arg His Tyr Leu Gln Leu Leu Thr Arg Gln Arg Tyr
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Arg His Tyr Leu Gln Leu Val Ser Arg Gln Arg Tyr
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Arg His Tyr Leu Gln Leu Val Thr Lys Gln Arg Tyr
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<400> 99

AI 9248US Sequence Listing.txt

Arg His Tyr Leu Gln Leu Val Thr Arg Asn Arg Tyr
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Arg His Tyr Leu Gln Leu Val Thr Arg Gln Lys Tyr
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<400> 101

Arg His Tyr Leu Gln Leu Val Thr Arg Gln Arg Thr
1 5 10

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<400> 102

Arg His Tyr Leu Gln Leu Val Thr Arg Gln Arg Phe
1 5 10

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<400> 103

Arg His Tyr Leu Asn Ile Ile Thr Arg Gln Arg Tyr
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Arg His Tyr Leu Asn Ile Leu Thr Arg Gln Arg Tyr
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Arg His Tyr Leu Asn Ile Val Ser Arg Gln Arg Tyr
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Arg His Tyr Leu Asn Ile Val Thr Lys Gln Arg Tyr
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Arg His Tyr Leu Asn Ile Val Thr Arg Asn Arg Tyr
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<400> 108

Arg His Tyr Leu Asn Ile Val Thr Arg Gln Lys Tyr
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Arg His Tyr Leu Asn Val Ile Thr Arg Gln Arg Tyr
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Arg His Tyr Leu Asn Val Leu Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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Arg His Tyr Leu Asn Val Val Ser Arg Gln Arg Tyr
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<400> 114

Arg His Tyr Leu Asn Val Val Thr Lys Gln Arg Tyr
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<400> 115

Arg His Tyr Leu Asn Val Val Thr Arg Asn Arg Tyr
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<400> 116

Arg His Tyr Leu Asn Val Val Thr Arg Gln Lys Tyr
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Arg His Tyr Leu Asn Val Val Thr Arg Gln Arg Thr
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AI 9248US Sequence Listing.txt

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Arg His Tyr Leu Asn Val Val Thr Arg Gln Arg Phe
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<400> 119

Arg His Tyr Leu Asn Leu Ile Ser Arg Gln Arg Tyr
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<400> 120

Arg His Tyr Leu Asn Leu Ile Thr Lys Gln Arg Tyr
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Arg His Tyr Leu Asn Leu Ile Thr Arg Asn Arg Tyr
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AI 9248US Sequence Listing.txt

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Arg His Tyr Leu Asn Leu Ile Thr Arg Gln Lys Tyr
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Arg His Tyr Leu Asn Leu Ile Thr Arg Gln Arg Thr
1 5 10

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Arg His Tyr Leu Asn Leu Ile Thr Arg Gln Arg Phe
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Arg His Tyr Leu Asn Leu Leu Ser Arg Gln Arg Tyr
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<400> 126

Arg His Tyr Leu Asn Leu Leu Thr Lys Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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 Arg His Tyr Leu Asn Leu Leu Thr Arg Asn Arg Tyr
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 Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Lys Tyr
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AI 9248US Sequence Listing.txt

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<400> 131

Arg His Tyr Leu Asn Leu Val Ser Lys Gln Arg Tyr
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<400> 132

Arg His Tyr Leu Asn Leu Val Ser Arg Asn Arg Tyr
1 5 10

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<400> 133

Arg His Tyr Leu Asn Leu Val Ser Arg Gln Lys Tyr
1 5 10

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<400> 134

Arg His Tyr Leu Asn Leu Val Ser Arg Gln Arg Thr
1 5 10

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<211> 12

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<400> 135

Arg His Tyr Leu Asn Leu Val Ser Arg Gln Arg Tyr
1 5 10

AI 9248US Sequence Listing.txt

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<400> 136

Arg His Tyr Leu Asn Leu Val Thr Lys Asn Arg Tyr
 1 5 10

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<400> 137

Arg His Tyr Leu Asn Leu Val Thr Lys Gln Lys Tyr
 1 5 10

<210> 138
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<400> 138

Arg His Tyr Leu Asn Leu Val Thr Lys Gln Arg Thr
 1 5 10

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<400> 139

Arg His Tyr Leu Asn Leu Val Thr Lys Gln Arg Phe
 1 5 10

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AI 9248US Sequence Listing.txt

<220>

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<400> 140

Arg His Tyr Leu Asn Leu Val Thr Arg Asn Lys Tyr
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Arg His Tyr Leu Asn Leu Val Thr Arg Asn Arg Thr
1 5 10

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<211> 12

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Arg His Tyr Leu Asn Leu Val Thr Arg Asn Arg Phe
1 5 10

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Arg His Tyr Leu Asn Leu Val Thr Arg Gln Lys Thr
1 5 10

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<400> 144

Arg His Tyr Leu Asn Leu Val Thr Arg Gln Lys Phe
1 5 10

AI 9248US Sequence Listing.txt

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<400> 145

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

<210> 146
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<220>
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<400> 146

Ile Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

<210> 147
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<400> 147

Val Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

<210> 148
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<400> 148

Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

<210> 149
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<400> 149

Thr Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10

<210> 150

<211> 15

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<223> Polypeptide variation

<400> 150

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 151

<211> 15

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<220>

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<400> 151

Ser Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 152

<211> 16

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<220>

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<400> 152

Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 153

<211> 16

<212> PRT

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<220>

<223> Polypeptide variation

<400> 153

Thr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

AI 9248US Sequence Listing.txt

<210> 154
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<220>
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<400> 154

Phe Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 155
 <211> 17
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<220>
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<400> 155

Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
 1 5 10 15

Tyr

<210> 156
 <211> 17
 <212> PRT
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<220>
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<400> 156

Thr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
 1 5 10 15

Tyr

<210> 157
 <211> 17
 <212> PRT
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<220>
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<400> 157

Phe Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
 1 5 10 15

Tyr

AI 9248US Sequence Listing.txt

<210> 158
 <211> 18
 <212> PRT
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<220>
 <223> Polypeptide variation

<400> 158

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
 1 5 10 15

Arg Tyr

<210> 159
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<400> 159

Lys Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
 1 5 10 15

Arg Tyr

<210> 160
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 160

Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg
 1 5 10 15

Gln Arg Tyr

<210> 161
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<400> 161

Gln Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg
 1 5 10 15

Gln Arg Tyr

AI 9248US Sequence Listing.txt

<210> 162
 <211> 20
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<220>
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 <400> 162

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
 1 5 10 15

Arg Gln Arg Tyr
 20

<210> 163
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation
 <400> 163

Ile Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
 1 5 10 15

Arg Gln Arg Tyr
 20

<210> 164
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation
 <400> 164

Val Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
 1 5 10 15

Arg Gln Arg Tyr
 20

<210> 165
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation
 <400> 165

Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val
 Page 39

AI 9248US Sequence Listing.txt

1 5 10 15
 Thr Arg Gln Arg Tyr
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<210> 166
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<400> 166

Asp Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val
 1 5 10 15

Thr Arg Gln Arg Tyr
 20

<210> 167
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 167

Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu
 1 5 10 15

Val Thr Arg Gln Arg Tyr
 20

<210> 168
 <211> 22
 <212> PRT
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<220>
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<400> 168

Asp Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu
 1 5 10 15

Val Thr Arg Gln Arg Tyr
 20

<210> 169
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 169

Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn
1 5 10 15

Leu Val Thr Arg Gln Arg Tyr
20

<210> 170

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 170

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
1 5 10 15

Asn Leu Val Thr Arg Gln Arg Tyr
20

<210> 171

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 171

Thr Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
1 5 10 15

Asn Leu Val Thr Arg Gln Arg Tyr
20

<210> 172

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 172

Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr
1 5 10 15

Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 173

AI 9248US Sequence Listing.txt

<211> 25
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 <213> Artificial Sequence

<220>
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<400> 173

Ser Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr
 1 5 10 15

Leu Asn Leu Val Thr Arg Gln Arg Tyr
 20 25

<210> 174
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<400> 174

Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His
 1 5 10 15

Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 20 25

<210> 175
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<400> 175

Glu Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His
 1 5 10 15

Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 20 25

<210> 176
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<400> 176

Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg
 1 5 10 15

AI 9248US Sequence Listing.txt

His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 177
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 177

Asp Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg
1 5 10 15

His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 178
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 178

Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu
1 5 10 15

Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 179
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 179

Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser
1 5 10 15

Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 180
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

AI 9248US Sequence Listing.txt

<400> 180

Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala
1 5 10 15

Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 181

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 181

Ser Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala
1 5 10 15

Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 182

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 182

Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr
1 5 10 15

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 183

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 183

Asp Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr
1 5 10 15

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 184

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 184

Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr
 1 5 10 15
 Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 20 25 30

<210> 185

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 185

Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
 1 5 10 15
 Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
 20 25 30

Tyr

<210> 186

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 186

Arg Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
 1 5 10 15
 Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
 20 25 30

Tyr

<210> 187

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 187

AI 9248US Sequence Listing.txt

Gln Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
1 5 10 15

Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30

Tyr

<210> 188
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 188

Asn Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
1 5 10 15

Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30

Tyr

<210> 189
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 189

Leu Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 190
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 190

Val Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

AI 9248US Sequence Listing.txt

Arg Tyr

<210> 191
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 191

Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

<210> 192
 <211> 14
 <212> PRT
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<220>
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<400> 192

Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10

<210> 193
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 193

Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 194
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 194

Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 195
 <211> 17
 <212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 195

Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg
1 5 10 15

Tyr

<210> 196

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 196

Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln
1 5 10 15

Arg Tyr

<210> 197

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 197

Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg
1 5 10 15

Gln Arg Tyr

<210> 198

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Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr
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Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val
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Thr Arg Gln Arg Tyr
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Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu
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Val Thr Arg Gln Arg Tyr
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Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn
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Leu Val Thr Arg Gln Arg Tyr
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Ser Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn
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AI 9248US Sequence Listing.txt

Leu Val Thr Arg Gln Arg Tyr
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Ala Ser Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr Leu
1 5 10 15

Asn Leu Val Thr Arg Gln Arg Tyr
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Asp Ala Ser Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His Tyr
1 5 10 15

Leu Asn Leu Val Thr Arg Gln Arg Tyr
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Glu Asp Ala Ser Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Lys His
1 5 10 15

Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu
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Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser
1 5 10 15

Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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<400> 208

Ala Pro Gly Glu Asp Ala Ser Glu Glu Leu Asn Arg Tyr Tyr Ala Ser
1 5 10 15

Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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<400> 209

Glu Ala Pro Gly Glu Asp Ala Ser Glu Glu Leu Asn Arg Tyr Tyr Ala
1 5 10 15

Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr
1 5 10 15

Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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<211> 32

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Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Glu Glu Leu Asn Arg Tyr
1 5 10 15

Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
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<210> 212

<211> 33

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<400> 212

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Glu Glu Leu Asn Arg
1 5 10 15

Tyr Tyr Ala Ser Leu Lys His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30

Tyr

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Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
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Leu Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
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<400> 215

Leu Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
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Pro Ala Glu Asp Leu Ala Gln Tyr Ala Ala Glu Leu Arg His Tyr Leu
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Asn Leu Leu Thr Arg Gln Arg Tyr
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Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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Ala Arg Tyr Tyr Ser Ala Leu Arg His Phe Ile Asn Leu Ile Thr Arg
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Gln Arg Tyr

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<400> 220

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1 5 10 15

Arg Gln Arg Tyr
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<400> 221

Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln
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1
Arg Tyr

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Xaa Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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<400> 223

Xaa Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
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1 5 10 15

Gln Arg Tyr

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Ala Ala Arg Tyr Ser His Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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<400> 225

Xaa Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
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Gln Arg Tyr

AI 9248US Sequence Listing.txt

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Arg Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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Gln Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln
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Ala Arg Phe Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
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Gln Arg Tyr

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Xaa Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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Xaa Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
1 5 10 15

Arg Gln Arg Tyr
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Ala Arg Tyr Tyr Ser Glu Leu Arg Arg Tyr Ile Asn Leu Ile Thr Arg
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Gln Arg Tyr

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Xaa Ala Arg Tyr Ala Ser Ala Leu Arg His Tyr Leu Asn Leu Ile Thr
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Arg Gln Arg Tyr
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<400> 234

Ala Arg Tyr Tyr Thr Gln Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
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AI 9248US Sequence Listing.txt

Gln Arg Tyr

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<400> 235

Leu Ala Arg Tyr Tyr Ser Asn Leu Arg His Tyr Ile Asn Val Ile Thr
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Arg Gln Arg Tyr
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Ala Arg Tyr Tyr Asp Ser Leu Arg His Tyr Ile Asn Thr Ile Thr Arg
 1 5 10 15

Gln Arg Tyr

<210> 237
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AI 9248US Sequence Listing.txt

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Ala Arg Tyr Tyr Ser Ala Leu Gln His Tyr Ile Asn Leu Leu Thr Arg
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<400> 238
Leu Ala Arg Tyr Tyr Ser Ala Leu Arg Gln Tyr Arg Asn Leu Ile Thr
1          5          10          15
Arg Gln Arg Phe
          20

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Arg Phe

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 1 5 10 15

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Ser Arg Tyr Tyr Ala Ser Leu Arg His Phe Leu Asn Leu Val Thr Arg
 1 5 10 15

AI 9248US Sequence Listing.txt

Gln Arg Tyr

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Xaa Ala Arg Tyr Tyr Asn Ala Leu Arg His Phe Ile Asn Leu Ile Thr
 1 5 10 15

Arg Gln Arg Tyr
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Xaa Arg Tyr Glu Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
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AI 9248US Sequence Listing.txt

His Arg Tyr

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AI 9248US Sequence Listing.txt

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Arg Gln Arg Phe
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Arg Gln Arg Tyr
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Xaa Arg Tyr Tyr Ser Ala Leu Gln His Phe Ile Asn Leu Ile Thr Arg
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AI 9248US Sequence Listing.txt

Gln Arg Tyr

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Xaa Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
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Gln Arg Phe

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Met Ala Arg Tyr Tyr Ser Asp Leu Arg Arg Tyr Ile Asn Leu Ile Thr
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Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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Gln Arg Tyr

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<222> (20)..(20)
<223> AMIDATION

<400> 254

Xaa Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
1 5 10 15

Arg Gln Arg Tyr
20

<210> 255
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 255

Ala Ser Leu Arg His Trp Leu Asn Leu Val Thr Arg Gln Arg Tyr
Page 70

1 5 10 15

<210> 256
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<220>
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 <222> (25)..(25)
 <223> im DNP HIS; 2,2 diphenylalanine Hisitidine

<220>
 <221> MOD_RES
 <222> (35)..(35)
 <223> AMIDATION

<400> 256

Tyr Pro Ala Lys Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu
 1 5 10 15

Ser Thr Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg
 20 25 30

Glx Arg Tyr
 35

<210> 257
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Polypeptide variation

<220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> AMIDATION

<400> 257

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 258
 <211> 15
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<220>
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<220>
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AI 9248US Sequence Listing.txt

<223> AMIDATION

<400> 258

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Ala Arg Gln Arg Tyr
1 5 10 15

<210> 259

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (15)..(15)

<223> AMIDATION

<400> 259

Ala Ala Leu Arg His Tyr Leu Asn Leu Val Ala Arg Gln Arg Tyr
1 5 10 15

<210> 260

<211> 15

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<213> Artificial Sequence

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<220>

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<223> AMIDATION

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Ala Ser Leu Arg His Tyr Glu Asn Leu Val Thr Arg Gln Arg Tyr
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<210> 261

<211> 15

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<223> N alpha ACETYLTATION

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<221> MISC_FEATURE

<222> (13)..(13)

<223> Xaa is Ornithine

AI 9248US Sequence Listing.txt

<220>
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 <222> (15)..(15)
 <223> AMIDATION

<400> 261

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa Arg Tyr
 1 5 10 15

<210> 262
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<220>
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 <222> (5)..(5)
 <223> Xaa is p.Cl.Pro; 4 chlorophenylalanine

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 <223> N alpha ACETYLTATION

<220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> AMIDATION

<400> 262

Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 263
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 <223> N alpha ACETYLTATION

<220>
 <221> MOD_RES
 <222> (15)..(15)
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<400> 263

Ala Ser Leu Arg His Tyr Glu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

AI 9248US Sequence Listing.txt

<210> 264
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<220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> AMIDATION

<220>
 <221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa is N Me Tyr

<400> 264

Ala	Ser	Leu	Arg	His	Phe	Glu	Asn	Leu	Val	Thr	Arg	Gln	Arg	Xaa
1				5					10					15

<210> 265
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 <223> Xaa is Ornithine

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 <223> N alpha ACETYLTATION

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 <223> AMIDATION

<220>
 <221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa is N Me Tyr

<400> 265

Ala	Ser	Leu	Arg	His	Tyr	Glu	Asn	Leu	Val	Thr	Arg	Xaa	Arg	Xaa
1				5					10					15

AI 9248US Sequence Listing.txt

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 <223> N alpha myristoyl

<220>
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 <222> (15)..(15)
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<400> 266

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 267
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 <212> PRT
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<400> 267

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 1 5 10 15

<210> 268
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AI 9248US Sequence Listing.txt

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<223> Xaa is Ornithine

<400> 268

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<223> N alpha ACETYLATION

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<400> 269

Ala	Ser	Leu	Arg	His	Tyr	Leu	Asn	Leu	Val	Thr	Arg	Gln	Arg	Tyr
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<220>
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<223> Xaa is 3 benzothienyalanine

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<222> (7)..(7)
<223> N alpha ACETYLATION

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AI 9248US Sequence Listing.txt

<221> MOD_RES
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<223> N alpha ACETYLATION

<400> 270

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 271
<211> 16
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<220>
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Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

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<223> Xaa is 3 benzothienylalanine

<400> 272

AI 9248US Sequence Listing.txt

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 273
<211> 15
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<222> (6)..(6)
<223> Xaa is 3 benzothienyalanine

<400> 273

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

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<400> 274

Ala Ser Leu Arg His Trp Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

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Ala Ser Leu Arg His Trp Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

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<222> (6)..(6)
<223> Xaa is 2 thienylalanine

<400> 276

Ala Ser Leu Arg Asn Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

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AI 9248US Sequence Listing.txt

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<223> Xaa is tetrahydroisoquinoline

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His	Phe	Leu	Asn	Leu	Val	Thr	Arg	Gln	Arg	Tyr
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AI 9248US Sequence Listing.txt

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<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa is 2 thienylalanine

<400> 280

Ala	Ser	Leu	Arg	His	Phe	Leu	Asn	Leu	Val	Thr	Arg	Gln	Arg	Xaa
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<222> (16)..(16)

<223> AMIDATION

<220>

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<222> (6)..(6)

<223> Xaa is 4 Thiazolylalanine

<400> 281

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1				5					10					15	

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<211> 16

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<221> MOD_RES

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<223> AMIDATION

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<222> (6)..(6)

<223> Xaa is 4 Thiazolylalanine

<400> 282

Ala Ser Leu Arg His Xaa Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 283

<400> 283

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<210> 284

<400> 284

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<210> 285

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<223> AMIDATION

<400> 289

Phe Ser Leu Arg Asn Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 290

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<400> 290

Tyr Ser Leu Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 291

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<400> 291

Ala Ser Leu Arg His Tyr Trp Asn Leu Val Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

1 5 10 15

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Ala Ser Leu Arg His Tyr Leu Asn Trp Val Thr Arg Gln Arg Tyr
1 5 10 15

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<400> 293

Ala Ser Leu Arg Ala Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

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AI 9248US Sequence Listing.txt

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<400> 294

Ala Ser Leu Arg Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
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 <223> AMIDATION

<400> 295

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<210> 296
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 <223> N alpha ACETYLTATION

<220>
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<400> 296

Ala Ser Leu Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Phe
 1 5 10 15

AI 9248US Sequence Listing.txt

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 <223> AMIDATION

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 <222> (11)..(11)
 <223> N alpha ACETYLTATION

<400> 297

Ala Ser Leu Arg His Phe Leu Asn Leu Val Xaa Arg Gln Arg Tyr
 1 5 10 15

<210> 298
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<220>
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 <222> (1)..(1)
 <223> N terminus is bonded to CH3CO

<400> 298

Leu Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
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AI 9248US Sequence Listing.txt

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<220>
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<400> 299

Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
 1 5 10

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 <223> AMIDATION

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AI 9248US Sequence Listing.txt

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 <222> (15)..(15)
 <223> Xaa is a pseudopeptide bond consisting of CH2 NH

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 <223> Xaa is Norvaline

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 <222> (3)..(3)
 <223> Xaa is Norleucine

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 <222> (7)..(7)
 <223> Xaa is Norleucine

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 <222> (9)..(9)
 <223> Xaa is Norleucine

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Ala Ser Xaa Arg His Trp Xaa Asn Xaa Xaa Thr Arg Gln Xaa Xaa
 1 5 10 15

<210> 303
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<220>
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AI 9248US Sequence Listing.txt

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<223> N alpha ACETYLATION

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<222> (10)..(10)
<223> Xaa is Norvaline

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Ala Ser Xaa Arg His Trp Xaa Asn Trp Xaa Thr Arg Gln Xaa Xaa
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AI 9248US Sequence Listing.txt

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<400> 304

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 <222> (14)..(14)
 <223> Xaa is a pseudopeptide bond consisting of CH2 NH

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)

AI 9248US Sequence Listing.txt

<223> Xaa is Norleucine

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa is Norleucine

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa is Norvaline

<400> 305

Ala	Ser	Xaa	Arg	His	Phe	Xaa	Asn	Trp	Xaa	Thr	Arg	Gln	Xaa	Xaa
1				5				10					15	

<210> 306

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLATION

<220>

<221> MOD_RES

<222> (12)..(12)

<223> AMIDATION

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa is a pseudopeptide bond consisting of CH2 NH

<220>

<221> MISC_FEATURE

<222> (11)..(11)

<223> Xaa is a pseudopeptide bond consisting of CH2 NH

<400> 306

Arg	His	Tyr	Leu	Asn	Trp	Val	Thr	Arg	Gln	Xaa	Xaa
1			5					10			

<210> 307

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

AI 9248US Sequence Listing.txt

<223> N alpha ACETYLTATION

<220>

<221> MOD_RES

<222> (12)..(12)

<223> AMIDATION

<400> 307

Arg His Tyr Leu Asn Trp Val Thr Arg Gln Arg Tyr
1 5 10

<210> 308

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLTATION

<220>

<221> MOD_RES

<222> (15)..(15)

<223> AMIDATION

<220>

<221> MISC_FEATURE

<222> (14)..(14)

<223> Xaa is a psuedopeptide bond consisting of CH2 NH2

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa is a psuedopeptide bond consisting of CH2 NH2

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa is Norleucine

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa is Norvaline

<400> 308

Ala Ser Leu Arg His Tyr Xaa Asn Trp Xaa Thr Arg Gln Xaa Xaa
1 5 10 15

<210> 309

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLTATION

<220>

<221> MOD_RES

<222> (15)..(15)

<223> AMIDATION

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa is a pseudopeptide bond consisting of CH2 NH2

<220>

<221> MISC_FEATURE

<222> (14)..(14)

<223> Xaa is a pseudopeptide bond consisting of CH2 NH2

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa is Norleucine

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa is Norleucine

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa is Norvaline

<400> 309

Ala	Ser	Xaa	Arg	His	Tyr	Xaa	Asn	Trp	Xaa	Thr	Arg	Gln	Xaa	Xaa
1				5				10					15	

<210> 310

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> bonded to OCH3

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> N terminus is bonded to H

<400> 310

AI 9248US Sequence Listing.txt

Ile Asn Pro Ile Tyr Arg Leu Arg Tyr
1 5

<210> 311
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> DISULFID
<222> (4)..(4)
<223> Sequence is linked to identical sequence by a disulfide bond

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N terminus is bonded to H

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> C terminus is bonded to NH2

<400> 311

Ile Asn Pro Cys Tyr Arg Leu Arg Tyr
1 5

<210> 312
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> C terminus is bonded to OCH3

<220>
<221> DISULFID
<222> (1)..(1)
<223> sequence is linked to an identical sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N terminus is bonded to H

<400> 312

Cys Tyr Arg Leu Arg Tyr
1 5

<210> 313

AI 9248US Sequence Listing.txt

```

<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N terminus is bonded to H

<220>
<221> MISC_FEATURE
<222> (3)..(4)
<223> Connected by NH CH CO

<220>
<221> MISC_FEATURE
<222> (3)..(4)
<223> Identical peptide chains are connected by (CH2)4 at the CH o
f NH CH CO

```

<400> 313

Ile Asn Pro Tyr Arg Leu Arg Tyr
1 5

```

<210> 314
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N terminus is bonded to H

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> C terminus is bonded to OCH3

```

<400> 314

Tyr Arg Leu Arg Tyr Tyr Arg Leu Arg Tyr
1 5 10

```

<210> 315
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> DISULFID

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AI 9248US Sequence Listing.txt

<222> (18)..(22)
<223>

<400> 315

Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala
1 5 10 15
Arg Cys Tyr Ser Ala Cys Arg His Tyr Ile Asn Leu Ile Thr Arg Gln
20 25 30

Arg Tyr

<210> 316
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 316

Arg His Tyr Leu Asn Leu Ile Gly Arg Gln Arg Tyr
1 5 10

<210> 317
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> MOD_RES
<222> (3)..(7)
<223> ACETYLATION

<400> 317

Arg His Gly Leu Asn Leu Leu Gly Arg Gln Arg Tyr
1 5 10

<210> 318
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 318

Tyr Ile Asn Leu Ile Tyr Arg Leu Arg Tyr
1 5 10

<210> 319
<211> 11

AI 9248US Sequence Listing.txt

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 319

His Tyr Ile Asn Leu Ile Tyr Arg Leu Arg Tyr
1 5 10

<210> 320

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 320

Arg His Tyr Ile Asn Leu Ile Tyr Arg Leu Arg Tyr
1 5 10

<210> 321

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<400> 321

Tyr Ile Asn Leu Leu Tyr Arg Gln Arg Tyr
1 5 10

<210> 322

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa is 6 amino hexanoic acid

<400> 322

Tyr Pro Ser Leu Xaa Tyr Ile Asn Leu Ile Tyr Arg Leu Arg Tyr
1 5 10 15

<210> 323

<211> 9

<212> PRT

<213> Artificial Sequence

AI 9248US Sequence Listing.txt

<220>

<223> Polypeptide variation

<400> 323

Ile Asn Leu Ile Tyr Arg Leu Arg Tyr
1 5

<210> 324

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLTATION

<220>

<221> MOD_RES

<222> (12)..(12)

<223> AMIDATION

<400> 324

Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10

<210> 325

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLTATION

<220>

<221> MOD_RES

<222> (15)..(15)

<223> AMIDATION

<400> 325

Ala Ser Leu Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 326

<211> 15

<212> PRT

<213> Artificial Sequence

AI 9248US Sequence Listing.txt

<220>

<223> Polypeptide variation

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> N terminal is bonded to H

<220>

<221> MOD_RES

<222> (15)..(15)

<223> AMIDATION

<400> 326

Ala Ser Leu Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 327

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (9)..(9)

<223> AMIDATION

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLTATION

<400> 327

Ala Ser Leu Arg Thr Arg Gln Arg Tyr
1 5

<210> 328

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Polypeptide variation

<220>

<221> MOD_RES

<222> (1)..(1)

<223> N alpha ACETYLTATION

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> Xaa is 2 thienylalanine

<220>

<221> MOD_RES

AI 9248US Sequence Listing.txt

<222> (15)..(15)
<223> AMIDATION

<400> 328

Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 329
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<220>
<221> MOD_RES
<222> (1)..(1)
<223> N alpha ACETYLTATION

<220>
<221> MOD_RES
<222> (15)..(15)
<223> AMIDATION

<400> 329

Tyr Ser Leu Arg His Phe Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 330
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 330

Asp Asp Asp Asp Tyr
1 5

<210> 331
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 331

Gly Pro Arg
1

<210> 332
<211> 3

AI 9248US Sequence Listing.txt

<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 332

Ala Gly Gly
1

<210> 333
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 333

His Pro Phe His Leu
1 5

<210> 334
<211> 34
<212> PRT
<213> Homo sapiens

<400> 334

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 335
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Polypeptide variation

<400> 335

Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala
1 5 10 15

Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln
20 25 30

Arg Tyr

<210> 336
<211> 37

AI 9248US Sequence Listing.txt

<212> PRT
<213> Homo sapiens

<400> 336

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val
1 5 10 15
Ser Ser Tyr Leu Glu Gly Gly Ala Ala Lys Glu Phe Ile Ala Trp Leu
20 25 30
Val Lys Gly Arg Gly
35

<210> 337
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (36)..(36)
<223> C terminus is bonded to NH2

<400> 337

His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val
1 5 10 15
Ser Ser Tyr Leu Glu Gly Gly Ala Ala Lys Glu Phe Ile Ala Trp Leu
20 25 30
Val Lys Gly Arg
35

<210> 338
<211> 31
<212> PRT
<213> Homo sapiens

<400> 338

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15
Gly Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
20 25 30

<210> 339
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> C terminus is bonded to NH2

<400> 339

AI 9248US Sequence Listing.txt

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
1 5 10 15

Gly Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
20 25 30

<210> 340

<211> 37

<212> PRT

<213> Homo sapiens

<400> 340

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser
1 5 10 15

Arg Arg Ala Gln Asp Phe Val Gln Trp Leu Met Asp Thr Lys Arg Asn
20 25 30

Lys Asn Asn Ile Ala
35

<210> 341

<211> 463

<212> PRT

<213> homo sapiens

<400> 341

Met Ala Gly Ala Pro Gly Pro Leu Arg Leu Ala Leu Leu Leu Leu Gly
1 5 10 15

Met Val Gly Arg Ala Gly Pro Arg Pro Gln Gly Ala Thr Val Ser Leu
20 25 30

Trp Glu Thr Val Gln Lys Trp Arg Glu Tyr Arg Arg Gln Cys Gln Arg
35 40 45

Ser Leu Thr Glu Asp Pro Pro Pro Ala Thr Asp Leu Phe Cys Asn Arg
50 55 60

Thr Phe Asp Glu Tyr Ala Cys Trp Pro Asp Gly Glu Pro Gly Ser Phe
65 70 75 80

Val Asn Val Ser Cys Pro Trp Tyr Leu Pro Trp Ala Ser Ser Val Pro
85 90 95

Gln Gly His Val Tyr Arg Phe Cys Thr Ala Glu Gly Leu Trp Leu Gln
100 105 110

Lys Asp Asn Ser Ser Leu Pro Trp Arg Asp Leu Ser Glu Cys Glu Glu
115 120 125

AI 9248US Sequence Listing.txt

Ser Lys Arg Gly Glu Arg Ser Ser Pro Glu Glu Gln Leu Leu Phe Leu
130 135 140

Tyr Ile Ile Tyr Thr Val Gly Tyr Ala Leu Ser Phe Ser Ala Leu Val
145 150 155 160

Ile Ala Ser Ala Ile Leu Leu Gly Phe Arg His Leu His Cys Thr Arg
165 170 175

Asn Tyr Ile His Leu Asn Leu Phe Ala Ser Phe Ile Leu Arg Ala Leu
180 185 190

Ser Val Phe Ile Lys Asp Ala Ala Leu Lys Trp Met Tyr Ser Thr Ala
195 200 205

Ala Gln Gln His Gln Trp Asp Gly Leu Leu Ser Tyr Gln Asp Ser Leu
210 215 220

Ser Cys Arg Leu Val Phe Leu Leu Met Gln Tyr Cys Val Ala Ala Asn
225 230 235 240

Tyr Tyr Trp Leu Leu Val Glu Gly Val Tyr Leu Tyr Thr Leu Leu Ala
245 250 255

Phe Ser Val Phe Ser Glu Gln Trp Ile Phe Arg Leu Tyr Val Ser Ile
260 265 270

Gly Trp Gly Val Pro Leu Leu Phe Val Val Pro Trp Gly Ile Val Lys
275 280 285

Tyr Leu Tyr Glu Asp Glu Gly Cys Trp Thr Arg Asn Ser Asn Met Asn
290 295 300

Tyr Trp Leu Ile Ile Arg Leu Pro Ile Leu Phe Ala Ile Gly Val Asn
305 310 315 320

Phe Leu Ile Phe Val Arg Val Ile Cys Ile Val Val Ser Lys Leu Lys
325 330 335

Ala Asn Leu Met Cys Lys Thr Asp Ile Lys Cys Arg Leu Ala Lys Ser
340 345 350

Thr Leu Thr Leu Ile Pro Leu Leu Gly Thr His Glu Val Ile Phe Ala
355 360 365

Phe Val Met Asp Glu His Ala Arg Gly Thr Leu Arg Phe Ile Lys Leu

AI 9248US Sequence Listing.txt

370

375

380

Phe Thr Glu Leu Ser Phe Thr Ser Phe Gln Gly Leu Met Val Ala Ile
385 390 395 400

Leu Tyr Cys Phe Val Asn Asn Glu Val Gln Leu Glu Phe Arg Lys Ser
405 410 415

Trp Glu Arg Trp Arg Leu Glu His Leu His Ile Gln Arg Asp Ser Ser
420 425 430

Met Lys Pro Leu Lys Cys Pro Thr Ser Ser Leu Ser Ser Gly Ala Thr
435 440 445

Ala Gly Ser Ser Met Tyr Thr Ala Thr Cys Gln Ala Ser Cys Ser
450 455 460